Kunkai Lin

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EDUCATION

University of California, Berkeley Sep 2019 - May 2023

B.A. in Computer Science Berkeley, CA

- Major GPA: 3.71/4.00
- Relevant Coursework: Operating Systems, Database Systems, Efficient Algorithms, Data Structures, Machine Structures, Computer Security, Optimization Models, Machine Learning, Artificial Intelligence, Computational Photography

TECHNICAL SKILLS

Languages: Java, Python, C, Golang, HTML, CSS, RISC-V

Libraries/Frameworks/Tools: NumPy, Sqlite, Scikit-learn, Pytorch, Pandas, Django, Git

EXPERIENCE

ByteDance Jun 2021 - Aug 2021

Front-End Development Intern Beijing

- Helped build and improve a website for China PA Department used for recording the usage of meeting rooms
- Used CSS to improve the website appearance and used Django to add some logics to deal with the information of meeting rooms from database and render the website

UC Berkeley Department of EECS Aug 2022 - Present

CS 162 Course Staff Berkeley, CA

- Fall 2022 CS 162 Reader, Operating Systems and System Programming, Prof. Natacha Crooks
- Graded student works, held the midterm review sessions and answered conceptual questions related to course materials during weekly office hours

PROJECTS

Pintos Operating System (C, OS) Feb 2022 - May 2022

- Implemented some core functionalities on Pintos to simulate an operating system in a team of 4
- User Program: Argument Passing, Process Control syscalls, File System syscalls and Floating Operations.
- Threading: Priority Scheduling and Multi-threading.
- File Systems: Buffer Cache, Extensible Files (following the FFS structure) and Directory Structure.

End-to-End File Sharing System (Golang) Jul 2021 - Aug 2021

- Applied the cryptographic primitives to design and implemented the client application for a secure file sharing system
- The system's functions included: Authenticate with a username and password; Save files to the server; Load saved files from the server; Overwrite saved files on the server; Append to saved files on the server; Share saved files with other users; and Revoke access to previously shared files

Bear Maps (Java) Oct 2020 - Nov 2020

- Implemented the back end for a web-based routing application (the mapping and routing of Berkeley) inspired by Google Maps by using existing front end and OpenStreetMap mapping data
- Developed map rastering and routing, applied the A star algorithm with the graph representation to implement shortest path routing